

Georgia Department of Transportation January 16, 2013

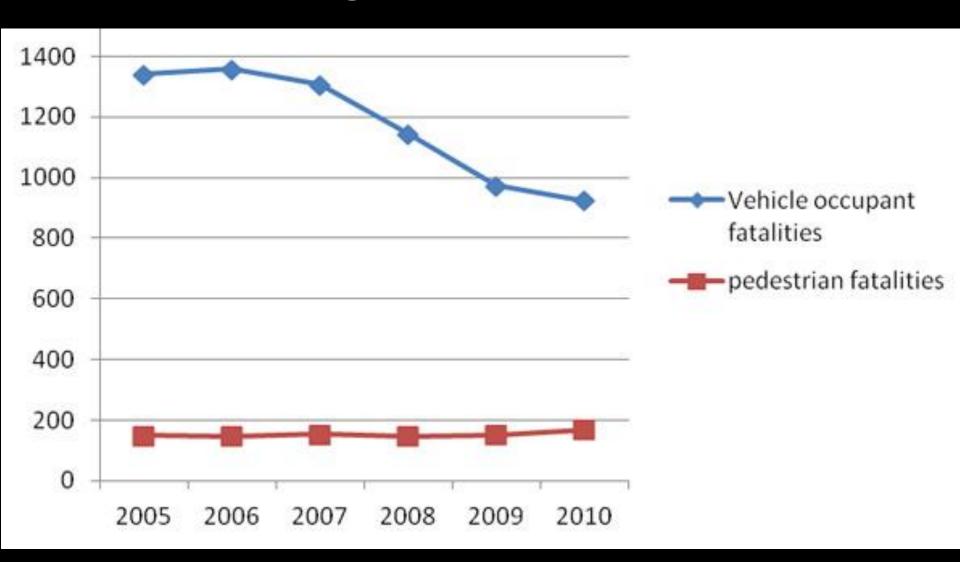








Pedestrians make up an increasing share of Georgia's traffic fatalities.

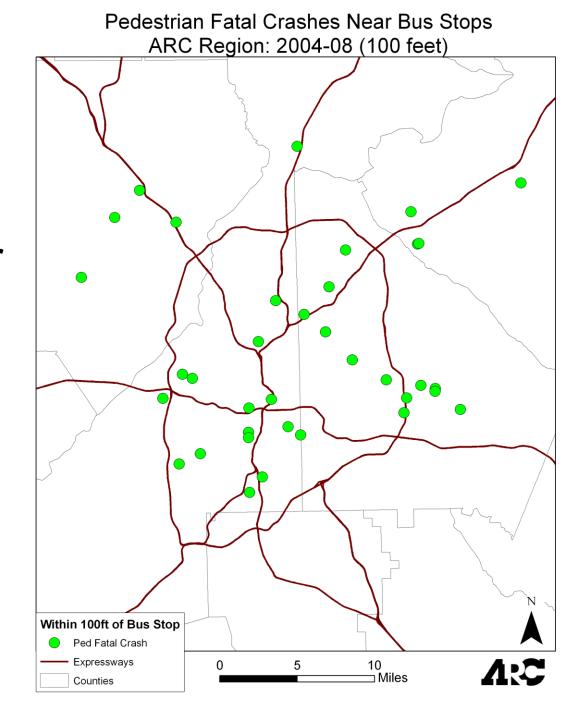


Pedestrians account for 1 out of 7 traffic fatalities in Georgia.

Pedestrian Fatal Crashes

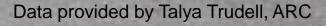
 The pedestrian fatalities are occurring further out in areas with less pedestrian infrastructure.

Arterials designed for vehicles

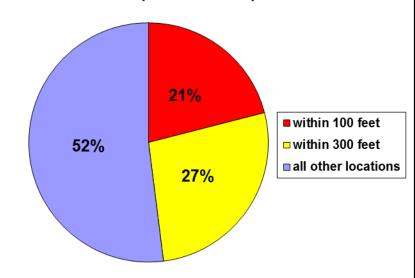




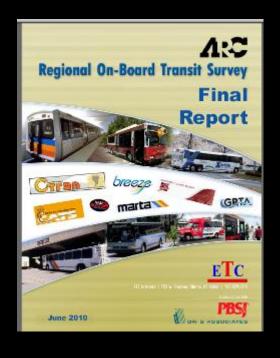
In the 18-county metro
Atlanta region, 21% of
pedestrian crashes
occurred within
100 feet of a bus stop



Pedestrian Crashes Near Bus Stops (2005 - 2008)

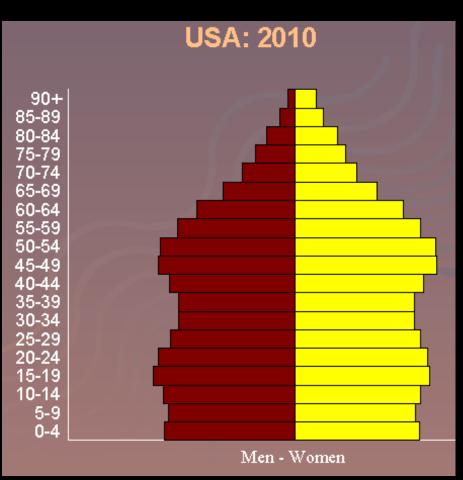


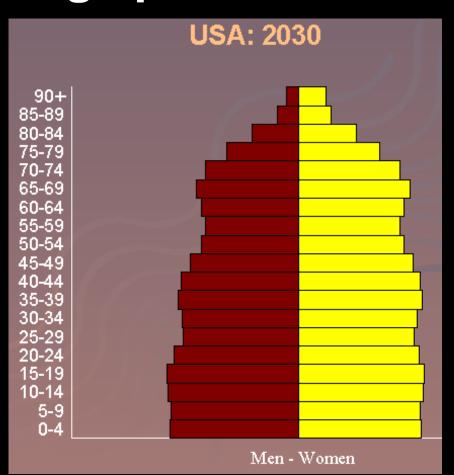
Three out four walk to transit.



Mode of Access to Transit	Percent
Walked	72.4%
Dropped Off	14.0%
Drove Alone	10.6%
Rode in a vehicle for part of	
the trip and walked/biked rest	
of the way	1.8%
Carpooled/Vanpooled	0.9%
Bicycle	0.3%

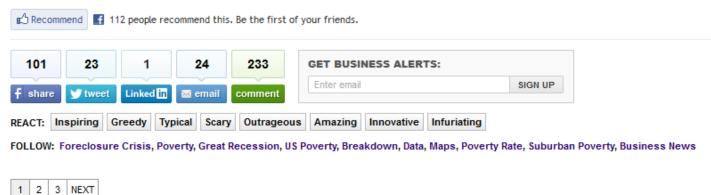
Longer lives Slower walking speeds



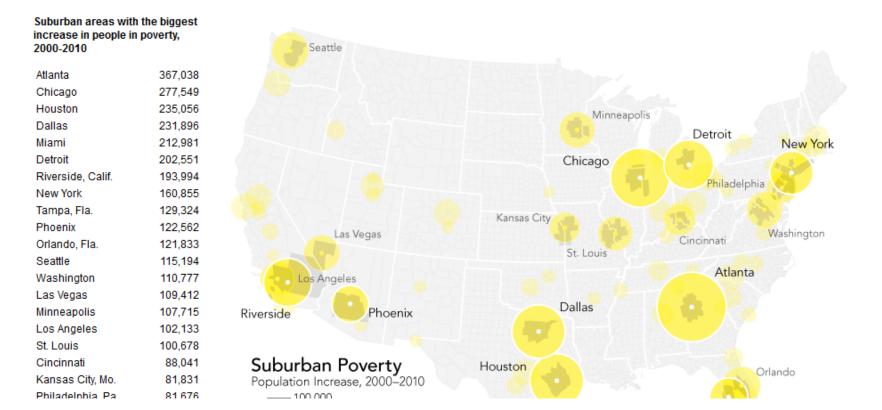


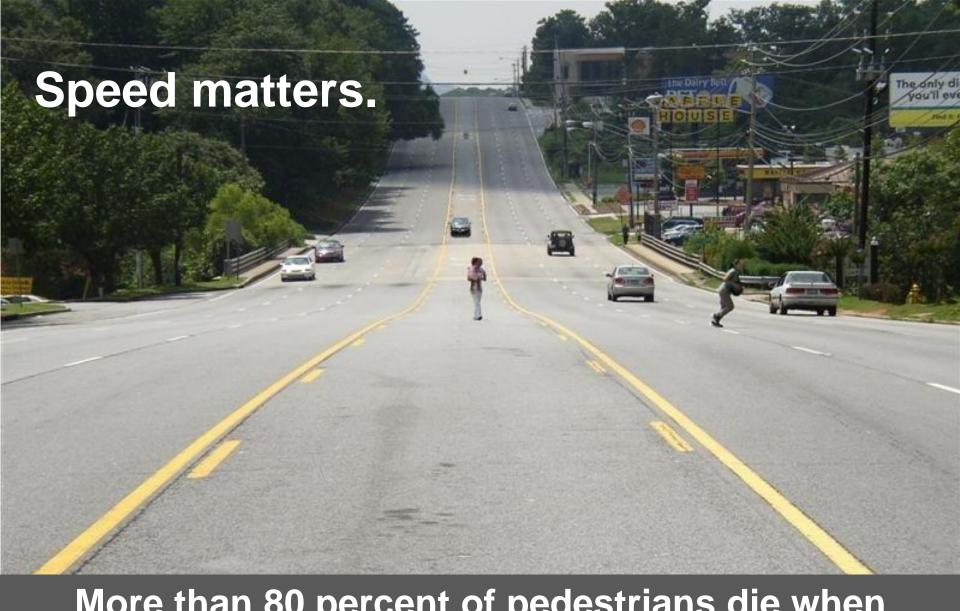
Source: ageworks.com

Poverty Moves To The Suburbs (MAPS)



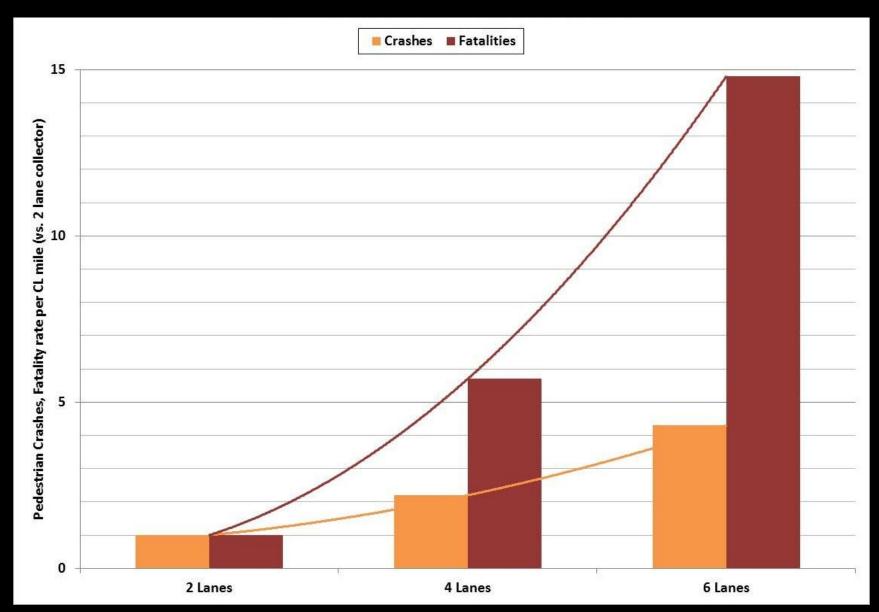
The number of people living in poverty in the suburbs of major metropolitan areas increased by 53 percent between 2000 and 2010, as compared to an increase of 23 percent among city residents.





More than 80 percent of pedestrians die when hit by vehicles traveling at 40 mph or faster.

Wide roads have higher pedestrian crash rates.







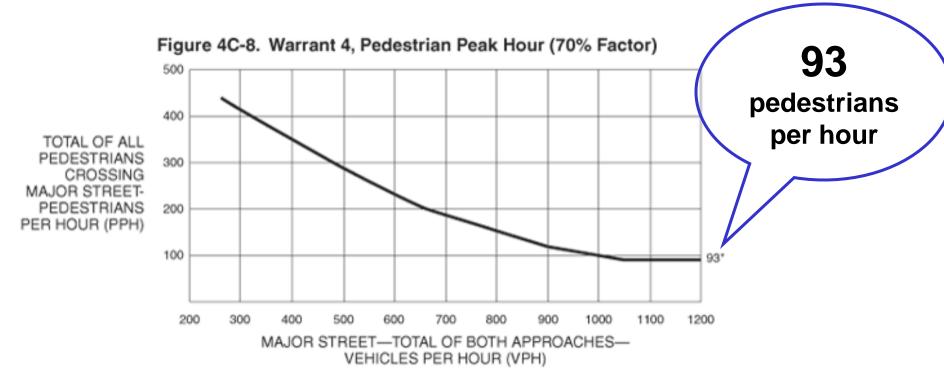
Ideally, we'd always cross at locations with positive control.



But the reality is quite different.

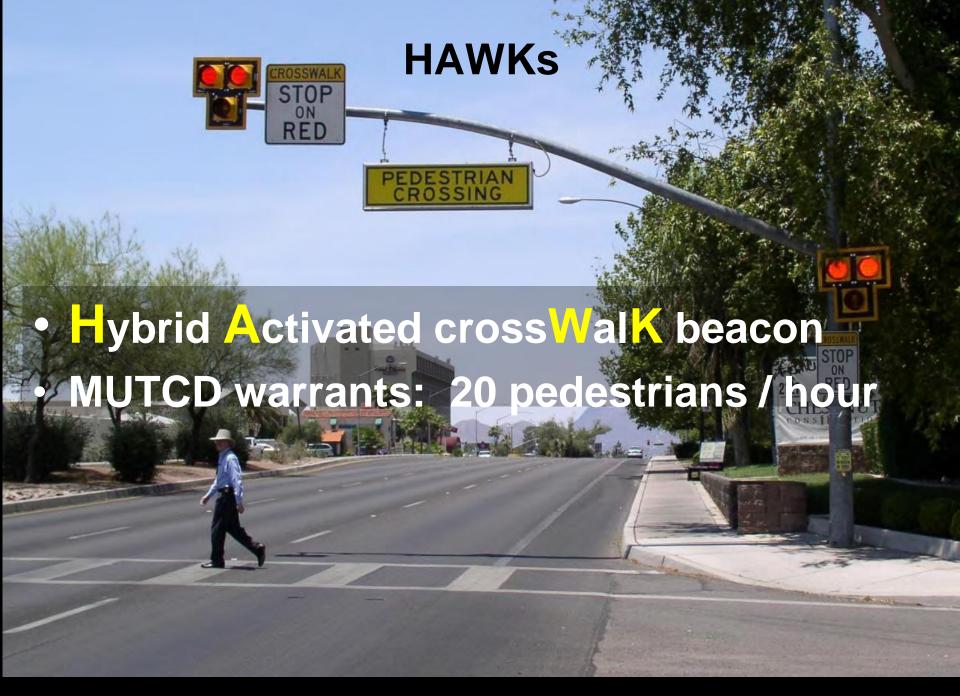
MUTCD Traffic Signal Warrants

2009 Edition Part 4 Figure 4C-8. Warrant 4, Pedestrian Peak Hour (70% Factor)



"Note: 93 pph applies as the lower threshold volume.

At most intersections, installing signals is not an option.



Two-thirds of MARTA bus stops have fewer than 20 riders per day.



At many of these stops, traffic volume and speed make it impossible for pedestrians to find safe gaps in traffic.





Pedestrian Road Safety Audits





FHWA considers median refuge islands a top safety countermeasure.

Proven Safety Countermeasures

Medians and Pedestrian Crossing Islands in Urban and Suburban Areas



U.S. Department of Transportation Federal Highway Administration



FHWA-SA-12-011

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A median is an area between opposing lanes of traffic, excluding turn lanes. Medians in urban and suburban areas can either be open (pavement markings only) or they can be channelized (raised medians or islands) to separate various road users.

Office of Safety

Proven Safety Countermeasures

These nine countermeasures address crashes that occur in the focus areas of intersections, pedestrians, and roadway departure.

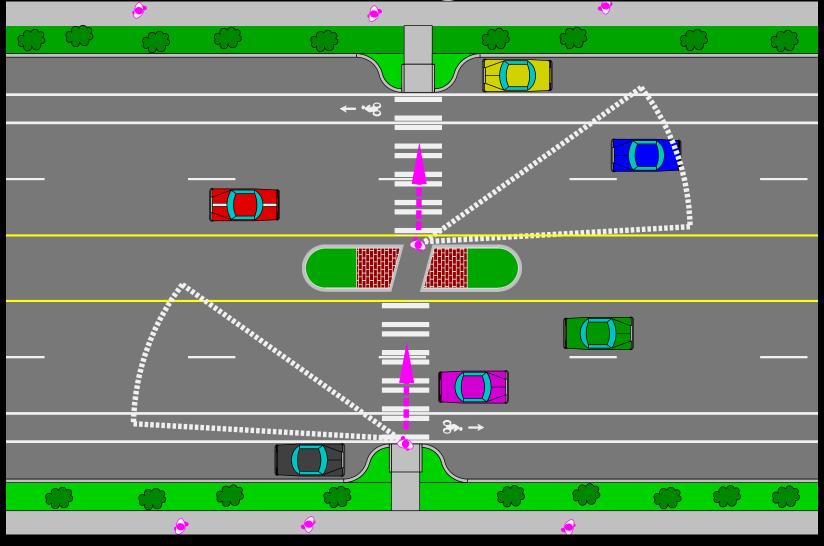




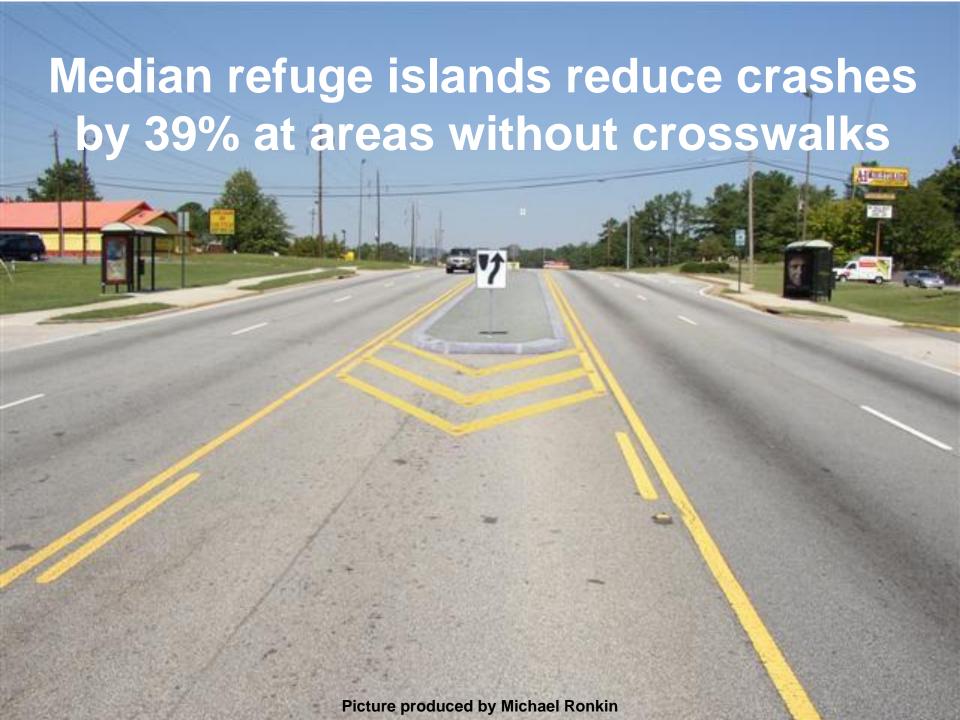




Median refuge islands



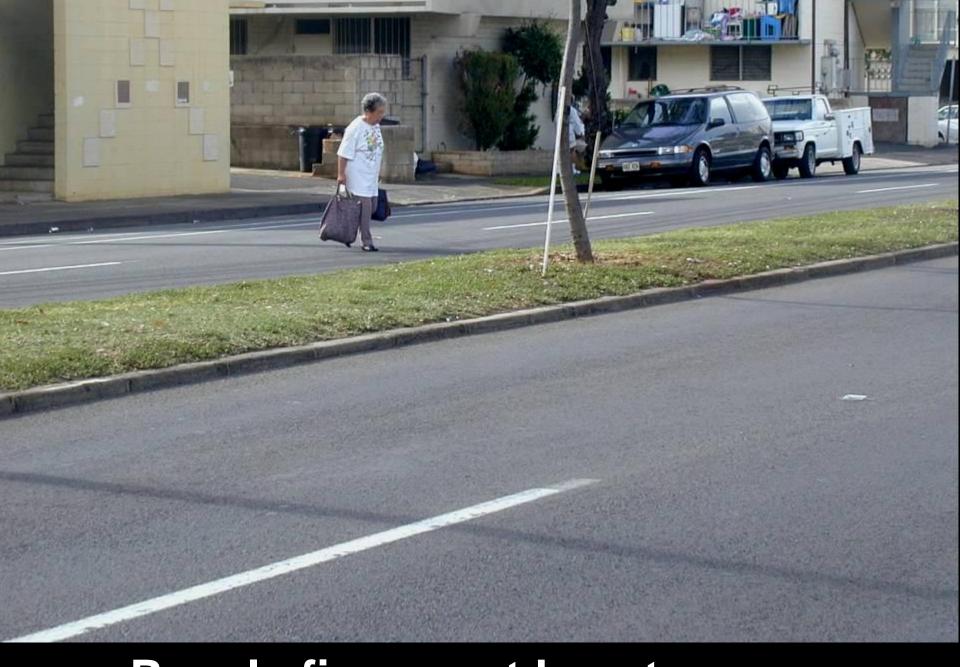
Break up into two easier crossings of one-way streets.



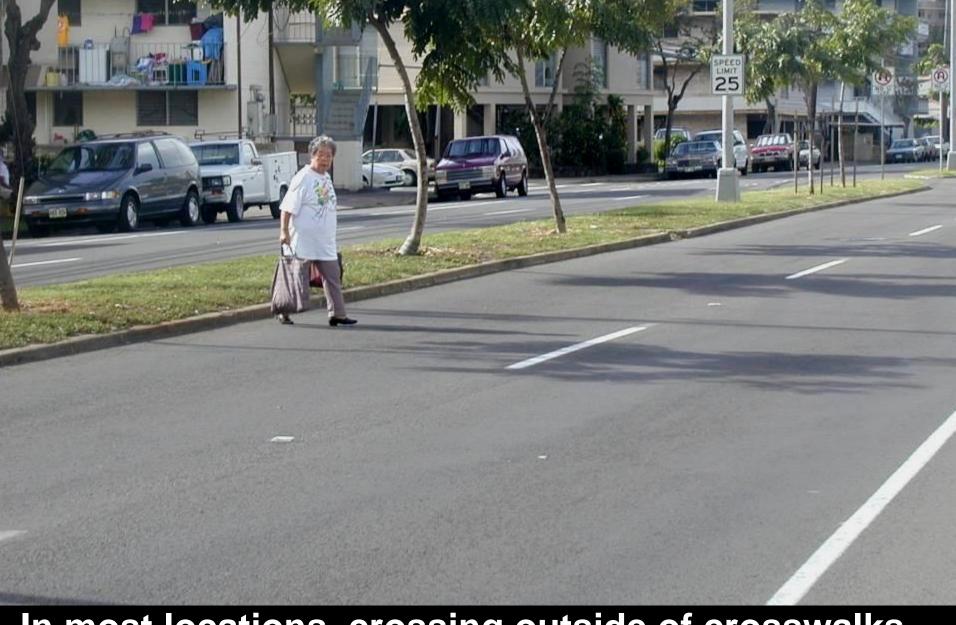


"The median island is the #1 safety improvement . . . for crossing a street."

Michael Ronkin, Designing Streets for People



People figure out how to cross.



In most locations, crossing outside of crosswalks is legal, as long as people yield to motorists.

If a refuge island isn't enough, engineers can add more devices later.

	# of Lanes	2	3	4	5	6	7
	Crosswalk	٧	٧	٧	٧		
pa	Traffic Calming	٧	٧		٧		
Enhanced	In-Street Sign	٧	٧	٧	٧		
ha	Yellow-Green Signs	٧	٧		٧		
Er	2-sided Signs	٧	٧		٧		
	Crossing Flags	٧	٧	٧	٧		
ē	2-Beacon RRFB	٧	٧				
Active	4-Beacon RRFB	٧	٧	٧	٧		
A	Flashing Beacons	٧	٧	٧	٧	٧	٧
	Embedded Lights	٧	٧	٧	٧	٧	٧
	HAWK	٧	٧	٧	٧	٧	٧
Red	Mid-Block Signal	٧	٧	٧	٧	٧	٧
	Signal	٧	٧	٧	٧	٧	٧

S	peed Limit (mph)	30	35	40	45	50	55
	Crosswalk	Ok	?	?	No	No	No
þ	Traffic Calming	Ok	Ok	?	?	No	No
Enhanced	In-Street Sign	Ok	Ok	?	No	No	No
ha	Yellow-Green Signs	Ok	Ok	?	No	No	No
Ē	2-sided Signs	Ok	Ok	?	No	No	No
	Crossing Flags	Ok	Ok	?	?	?	?
ā	2-Beacon RRFB	Ok	Ok	Ok	?	?	?
Active	4-Beacon RRFB	Ok	Ok	Ok	?	?	?
Ā	Flashing Beacons	Ok	Ok	Ok	?	?	?
	Embedded Lights	Ok	Ok	Ok	?	?	?
	HAWK	Ok	Ok	Ok	Ok	Ok	Ok
Red	Mid-Block Signal	Ok	Ok	Ok	Ok	Ok	Ok
	Signal	Ok	Ok	Ok	Ok	Ok	Ok

	Vehicle Traffic	Light	Medium	Heavy
	Crosswalk	٧	٧	٧
þ	Traffic Calming	٧	٧	٧
Enhanced	In-Street Sign	٧	٧	V
ha	Yellow-Green Signs	٧	٧	
Er	2-sided Signs	٧	٧	
	Crossing Flags	٧	٧	٧
/e	2-Beacon RRFB	٧	٧	V
Active	4-Beacon RRFB	٧	٧	٧
A	Flashing Beacons	٧	٧	
	Embedded Lights	٧		
Red	HAWK		٧	٧
	Mid-Block Signal		٧	V
	Signal		٧	٧

F	Pedestrian Traffic	Light	Middle	Heavy
	Crosswalk	٧	٧	
pa	Traffic Calming	٧	٧	٧
nce	In-Street Sign	٧	٧	
Enhanced	Yellow-Green Signs	٧		
Ē	2-sided Signs	٧	٧	
	Crossing Flags	٧	٧	
e e	2-Beacon RRFB	٧		
Active	4-Beacon RRFB	٧		
Ā	Flashing Beacons	٧	٧	
	Embedded Lights	٧	٧	
Red	HAWK		٧	٧
	Mid-Block Signal			٧
	Signal			٧



What will you do to enable the Department's engineers to retrofit existing roads with median refuge islands?



peds.org